Open Source vs. INSPIRE
INSPIRE vs. Open Source
What is open source doing for INSPIRE?
What is INSPIRE doing for open source?

Jáchym Čepický[1][2]

[1]Help Service - Remote Sensing s.r.o.
Benešov
http://hsrs.cz
[2]OSGeo http://osgeo.org

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Open Source?

Definition by OSI

The distribution terms of open-source software must comply with the following criteria: [a]:

- Free redistribution
- Free access to the source code
- Derived works
- . . .

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[a]http://opensource.org/docs/definition.html

Open is action and conversation, not a press release or a case study. [Chris Holmes][1]

[1] http://cholmes.wordpress.com/2013/05/14/opening-esri/

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- Prefer open standards to proprietary once
- Open you proprietary formats and services – provide us with documentation
- Use open forums to advocate your position, discusse with the community.
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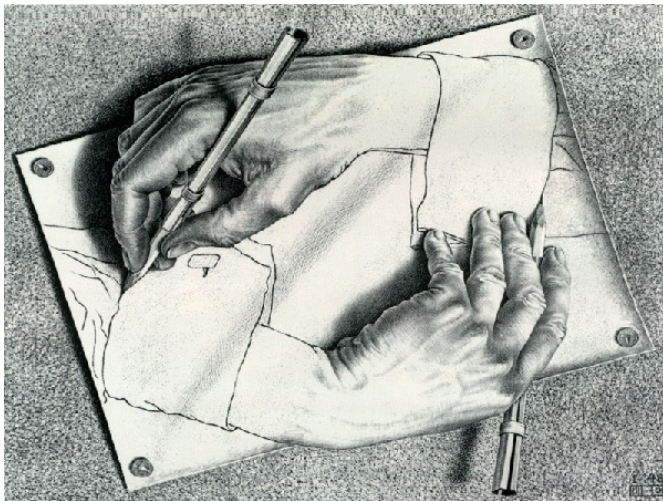[1] http://cholmes.wordpress.com/2013/05/14/opening-esri/

- Coding (GNU/Linux, GRASS GIS, MapServer, Firefox, Chromium, Android, . . .)
- Informations (Wikipedia)
- (Geo)Data (Open Data, OpenStreetMap, OpenAerialMap, GrassRootsMapping, . . .)

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Openness = colaboration

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Open Source Geospatial Foundation – OSGeo

We are open source geo- community.

Not-for-profit organization (US 501(c)(3) whose mission is to support the collaborative development of open source geospatial software, and promote its widespread use. Provides financial, organizational and legal support to the broader open source geospatial community.
It also serves as an independent legal entity to which community members can contribute code.
Project certification – OSGeo projects

Board of directors

- Peter Batty, Jáchym Čepický, Michael Gerlek, Anne Ghisla, Mark Lucas, **Jeff McKenna**, Daniel Morissette, Cameron Shorter, Frank Warmerdam

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OSGeo Structure

Board of directors

20.07.12 jmckenna	but that was like years ago. will try again
20.07.17	* FrankW_G moves to adopt the minutes of the previous meeting
20.07.26 mbcas	secon
20.07.27	* dmorissette seconds / +1
20.07.30 aghisla	+1
20.07.31 jmckenna	+1
20.07.32 jachym	+1
20.07.35 CameronShorter	+1
20.07.35 mbcas	+1
20.07.37 mpg	+1
20.07.55 pmbatty	+1
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20.08.18 dmorissette	(thank you jachym â€| we should change this channel's topic to provide the right link to logs)
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OSGeo
Your Open Source Compass

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- Charter members ($\approx$ 150) (elections!)
- Local chapters (20+) (http://geo-spatial.org)
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- New forming SDI committee (focussed on INSPIRE)
- Current state analyzis available at
  `http://wiki.osgeo.org/wiki/INSPIRE`

View services – Server

- MapServer
- GeoServer
- deegree
- MapGuide

- OpenLayers
- QGIS

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- GeoNetwork
- deegree
- pycsw

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INSPIRE-related documentation
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    - WCS axis order and other fixes
    - Fixed resolution when UoM changes in WCS 2.0
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GeoServer

Deegree build and tested in Germany (Bonn). Deegree was
choosen for the main INSPIRE geoportal.
More info about deegree a INSPIRE at `http://wiki.deegree.org/deegreeWiki/InspireNode`
3.2.0-3.2.3 (March - April 2013) – Fixes for INSPIRE download
service and View service

deegree

GeoNetwork

Two years of work between 2.6 a 2.8.

- Custom parameters to CSW request
- Versioning of metadata
- GeoServer interface
- . . . (mor than 500 changes)

PyCSW

PyCSW relatively new project (2011), OSGeo incubation.

- OGC compliant CSW and Reference Implementation since 1.4.0
- Implements the INSPIRE Discovery Service Technical Guidance v 3.0 since version 1.0.0
- No UI
- New release 2013-6, fix ISO metadata parser for dealing with non existing elements, . . .

QGIS

~~Desktop (geo)data viewer~~ full featured GIS Platform . Contains
WMS, WFS clients, data editing. INSPIRE modules:

- Atom client (INSPIRE Download service 3.0)
- WFS 2.0 client
- qgCSW - CSW metadata client klient
- . . .

OpenLayers

OpenLayers Web mapping framework, used in various projects
(HSLayers, GeoExt, InterGraph Geoportal, . . .)

- Used for INSPIRE view, download and transformation service
- Aligned with requirements on INSPIRE data viewers.

TODO

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- INSPIRE is community, OSGeo is community – building bridges
- Paul Smith, Robin Smith and Peter Baumann, . . . : Welcome to OSGeo community
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- Common keywords: #interoperability, #openness, #collaboration, #community, . . .
- Current standards, interoperability, development (WMTS, EPSG:3857, KLM, . . .), but Walking on the water and writing software against standard is easy, when both are frozen
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Conclusion

- OSGeo projects are doing their best, so they can be used inside any SDI
- From the viewpoint of OSGeo, INSPIRE is one of key initiatives. All projects are implementing changes, required by INSPIRE.
- Open source is not the only right way. It is just another right way – Open source software can even be professional and commercial, but it will always remain open.

HS-RS

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